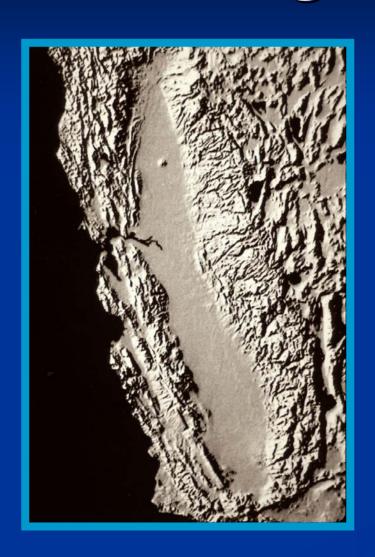
Bond Funding: Flood & Delta

Assembly Committee on Water, Parks & Wildlife

Battling the Inland Sea





Hydraulic Mining > Sediment

(Banned 1884)



Inland Sea Driven Into Narrow Channels

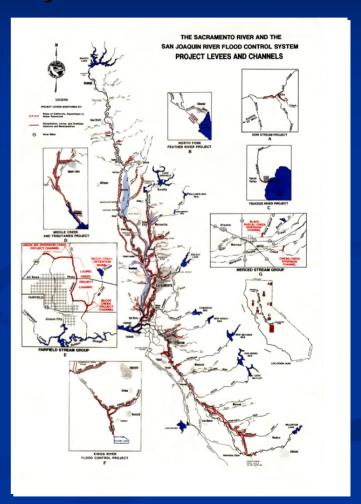




... to protect farm land

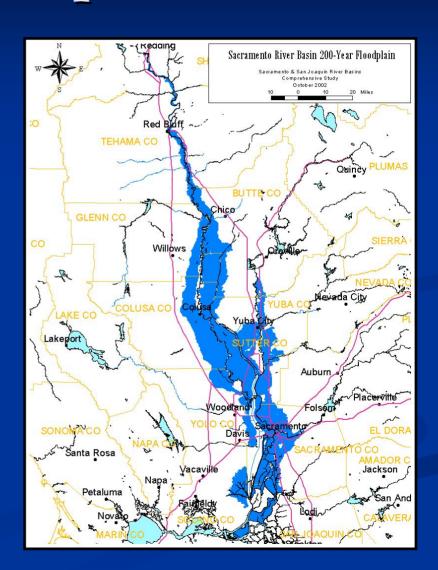
California's Federal Flood System – Central Valley

- 1880: State Engineer Plan
- 1893: CA Debris Commission
- 1911: State Adoption
- 1917: Federal Authorization
- **Today: 1600 Miles of Levees**

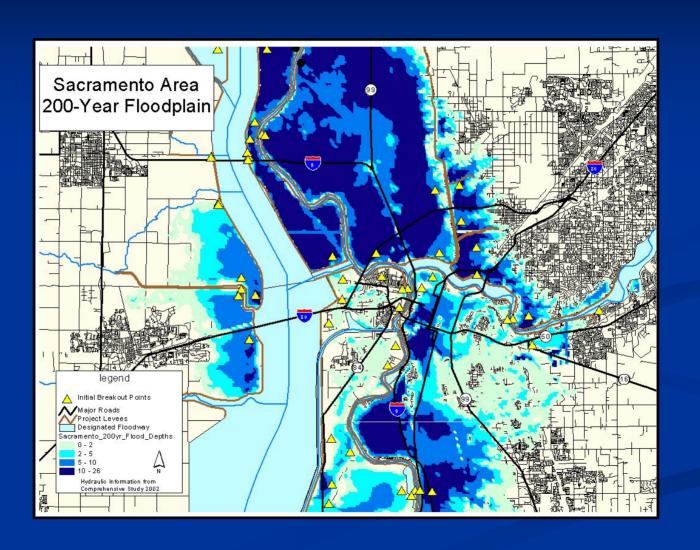


Deep Floodplains

- ■3+ Feet Deep
- May Fill Quickly
- Life At Risk



Sacramento At Risk



Development In Flood Plains

1980's

Today





Yuba/Sutter – Sacramento Valley

New Orleans Flooding – 2005



California Flooding – 1997



State Flood Bond Funds

Flood Funding Category	Prop 1E	Prop 84
Evaluation, Repair & Improvement of	\$3,000	\$275
Flood Facilities (Prop 1E includes Delta)		
Flood Control Subventions Program	\$500	\$180
Floodway Corridor Program	\$290	\$40
(Prop 1E includes floodplain mapping)		
Stormwater Flood Management	\$300	\$90
Delta Flood Control – Specific Allocation	n/a	\$275
Floodplain Mapping – Specific Allocation	n/a	\$30
TOTAL	\$4,090	\$890

(in millions of dollars)

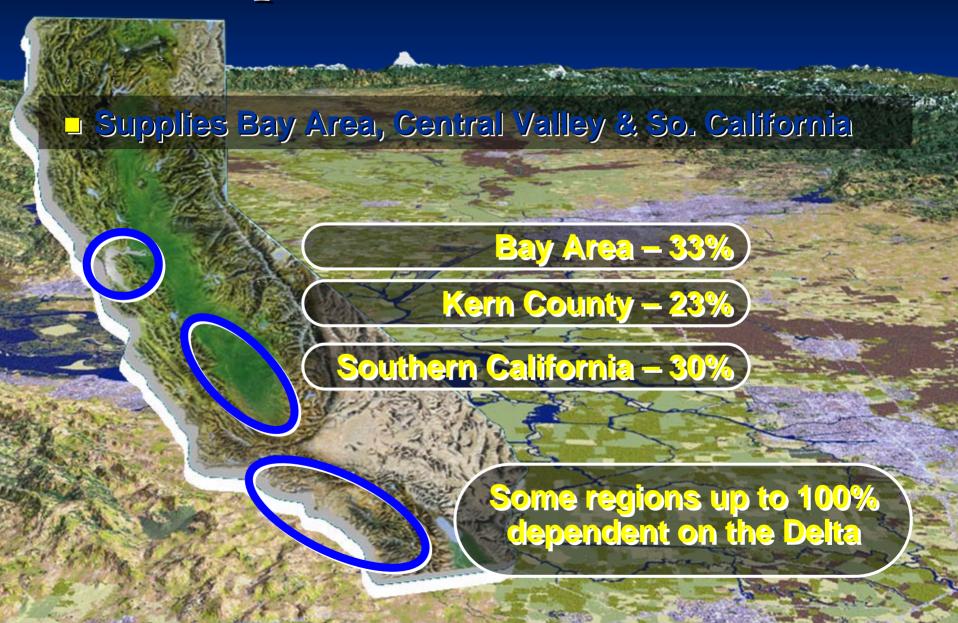
Flood Bond Funding Priorities

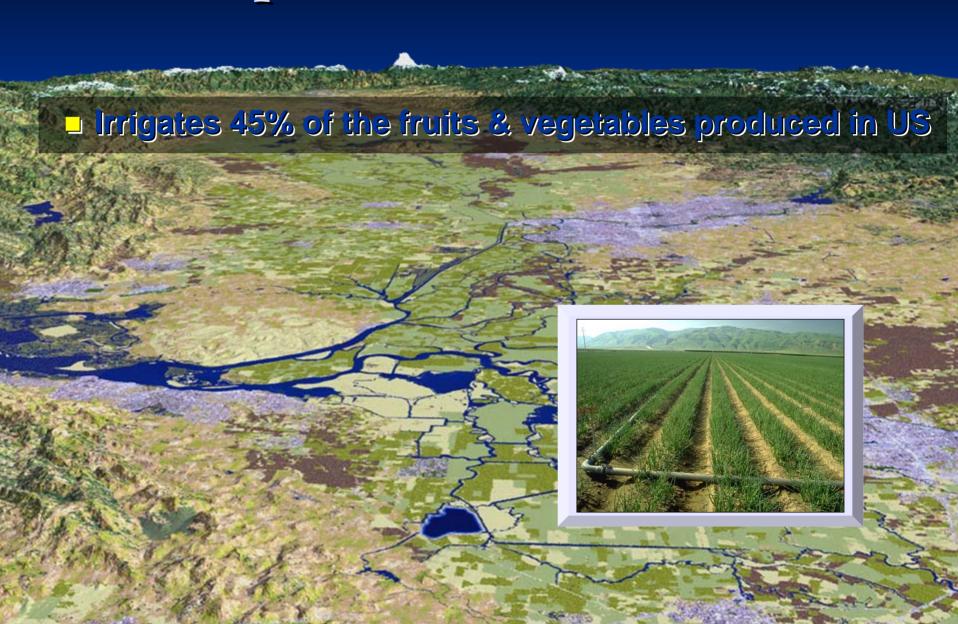
- Emergency Levee Repairs & Channel Clearing
- Early Implementation Projects
 - rehabilitation, reconstruction, replacement
 - improvements for urban areas
- Evaluation, Assessment & Mapping
- Support for Local/Regional Efforts
- State Plan of Flood Control/Flood Protection
- Expansion of Flood Capacity Floodway Corridor
- Environmental Mitigation
- Delta Levees

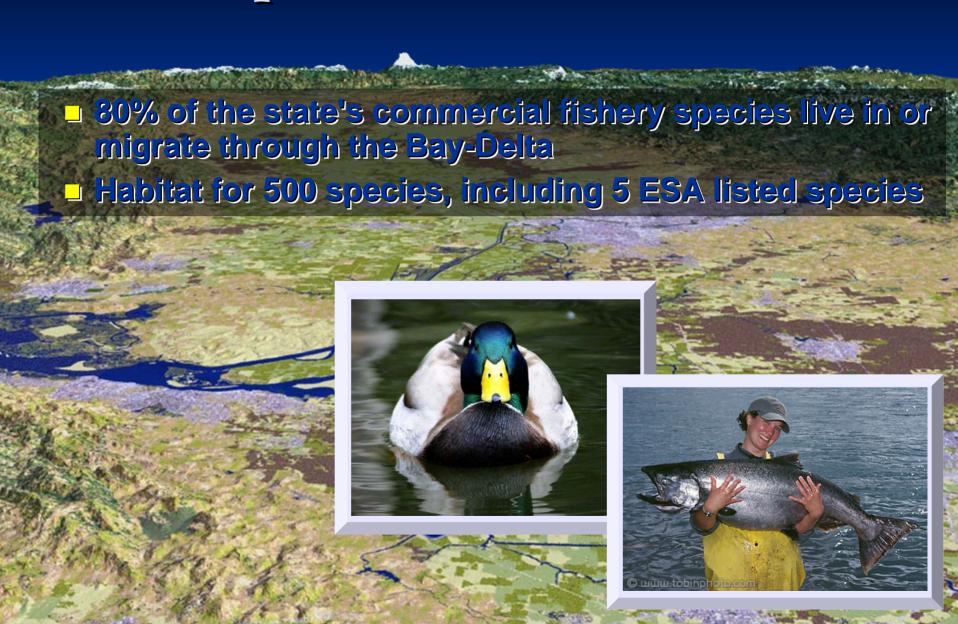
Integral Policy Issues

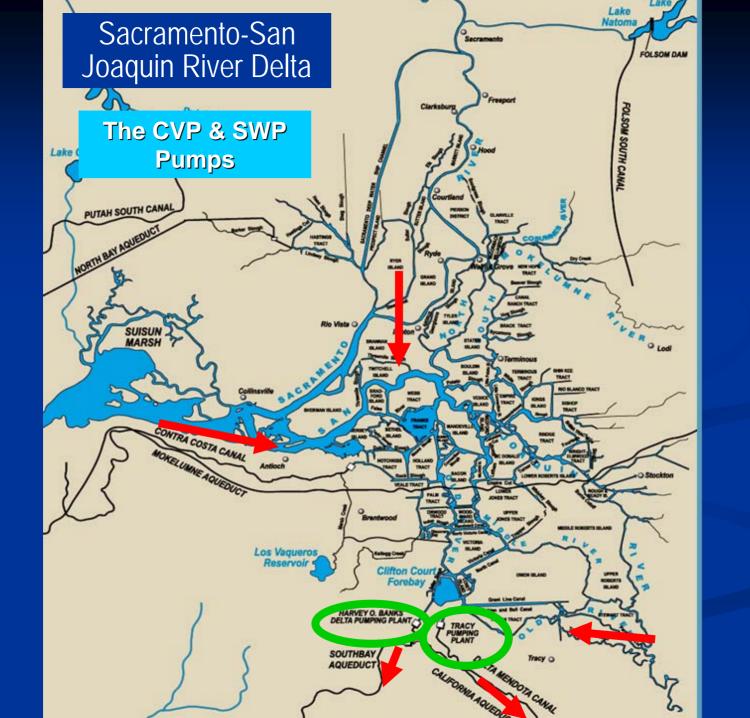
- Floodplain Land Use/Development
- State Plan of Flood Control & Mapping
- Emergency Response Preparedness
- Federal/State/Local Responsibilities
- Who: DWR or Reclamation Board
- Liability for Failed Levees (Paterno v. State)
- Flood Insurance (Nat'l Flood Ins. Program)
- Project Levees vs. Flood Subvention Program



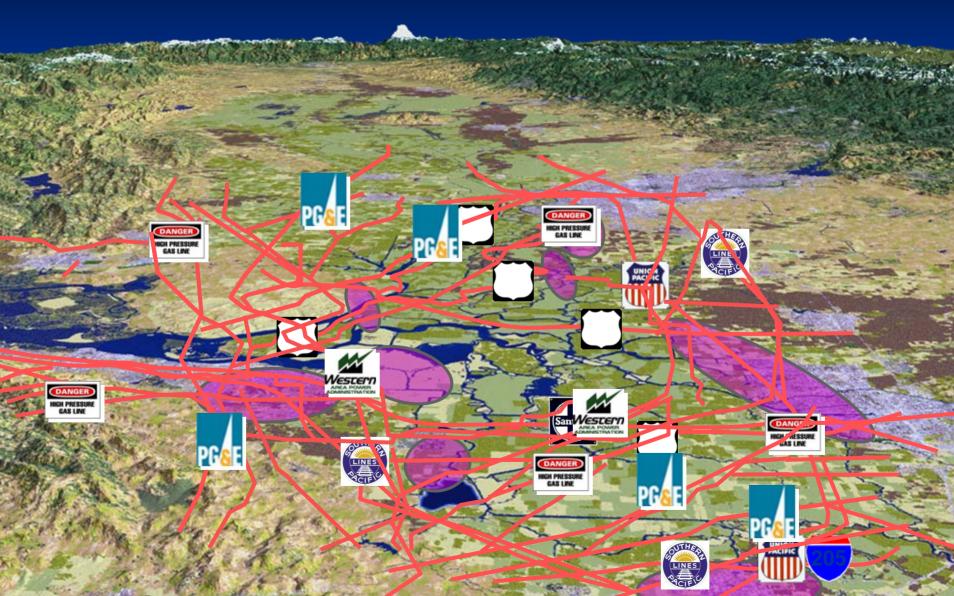






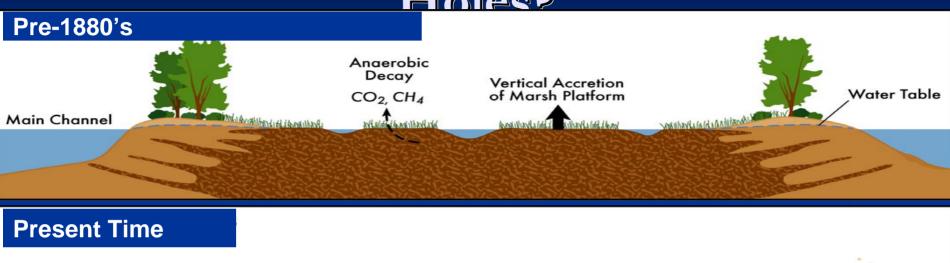


Delta Infrastructure = More Than Water



Land Subsidence -- Islands or





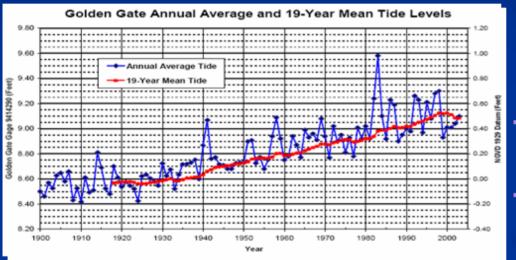


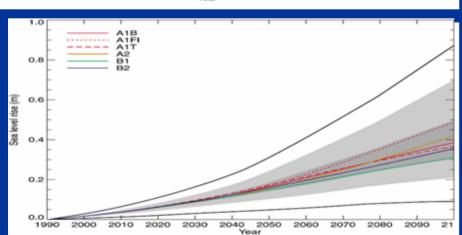
Levee Failure





Sea Level Rise





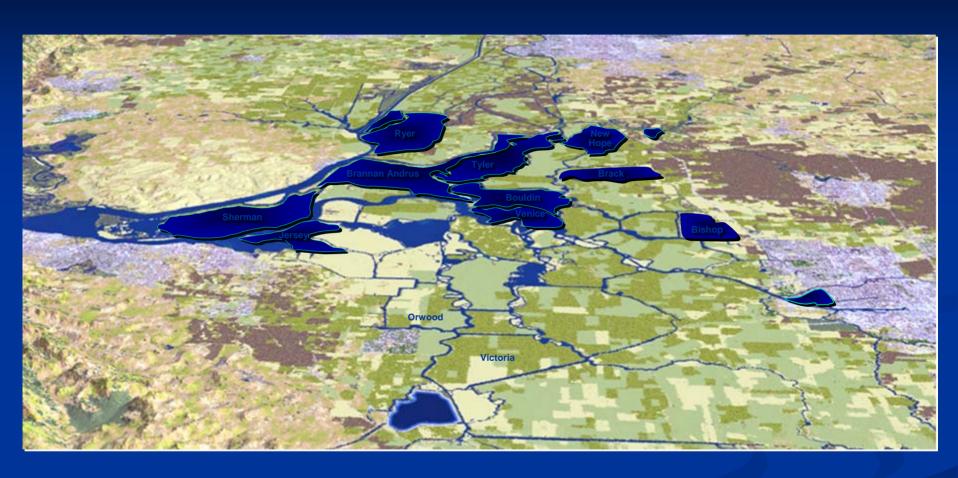


Past (1900 – 2000)-- 1/2 it sea level rise

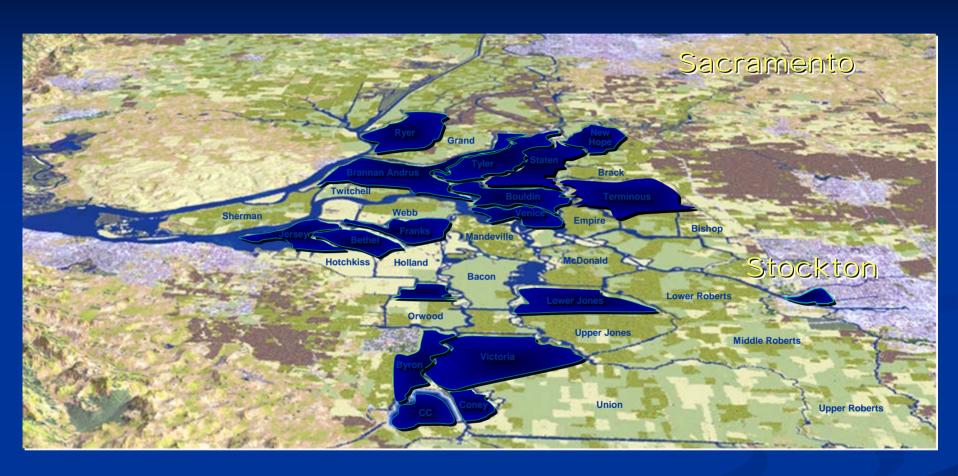
Future (2000 – 2100)½ to 3 it sea level rise









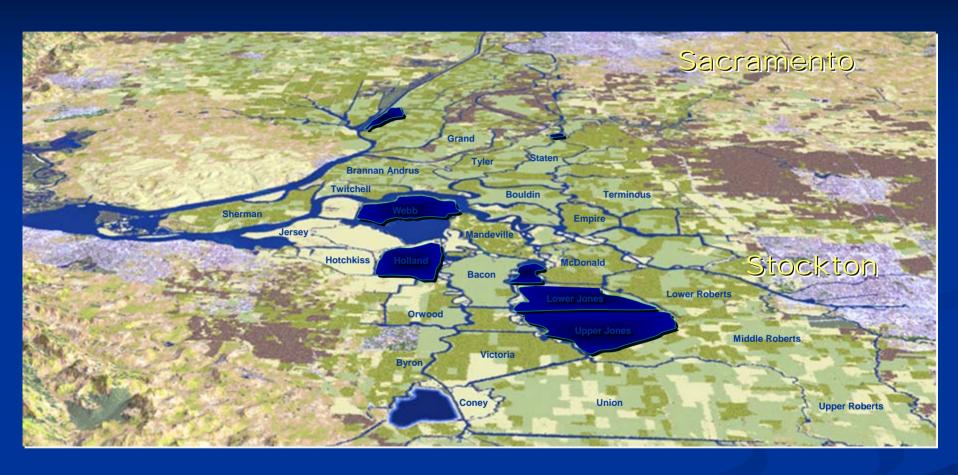








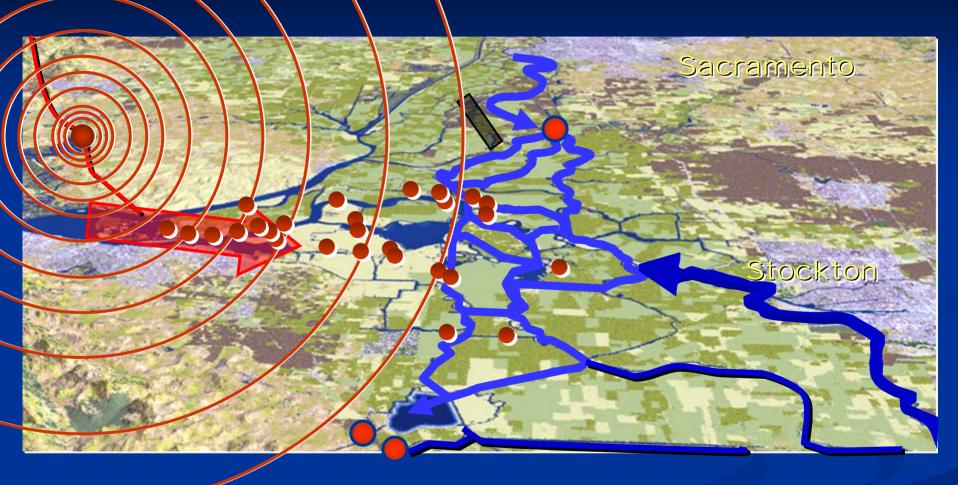


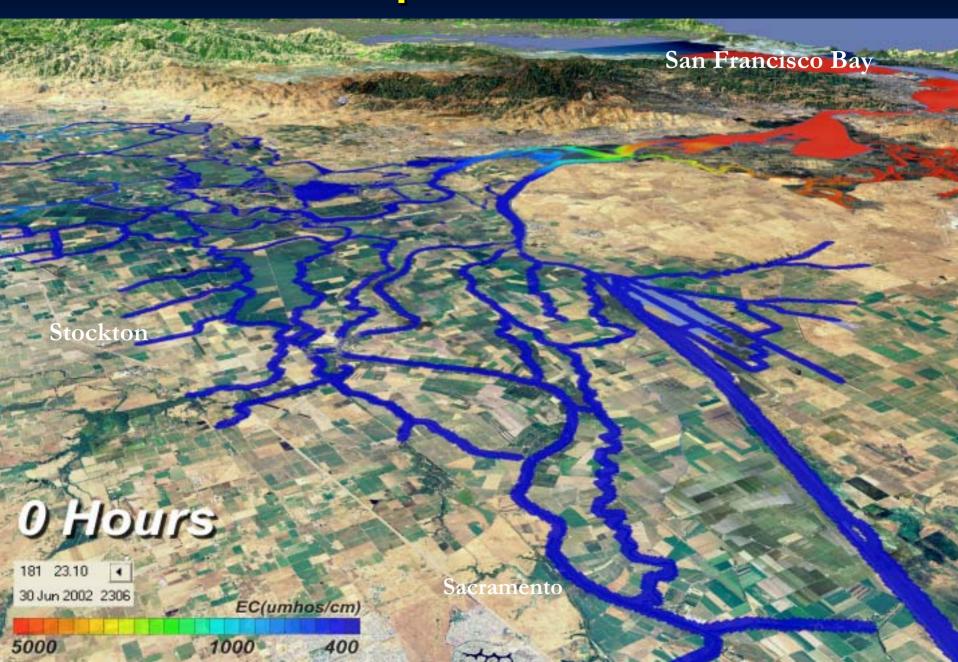


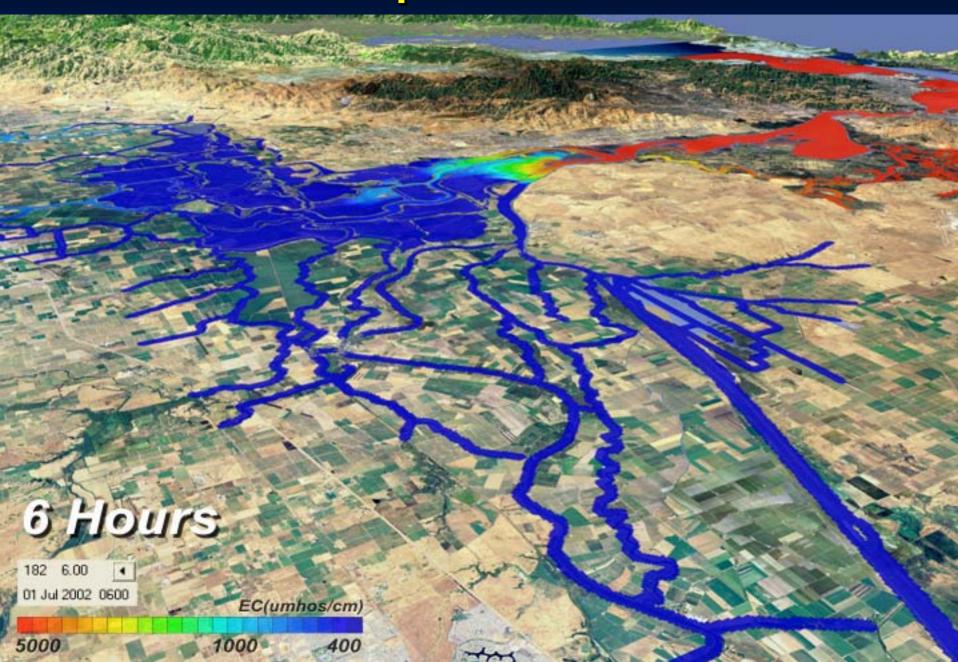


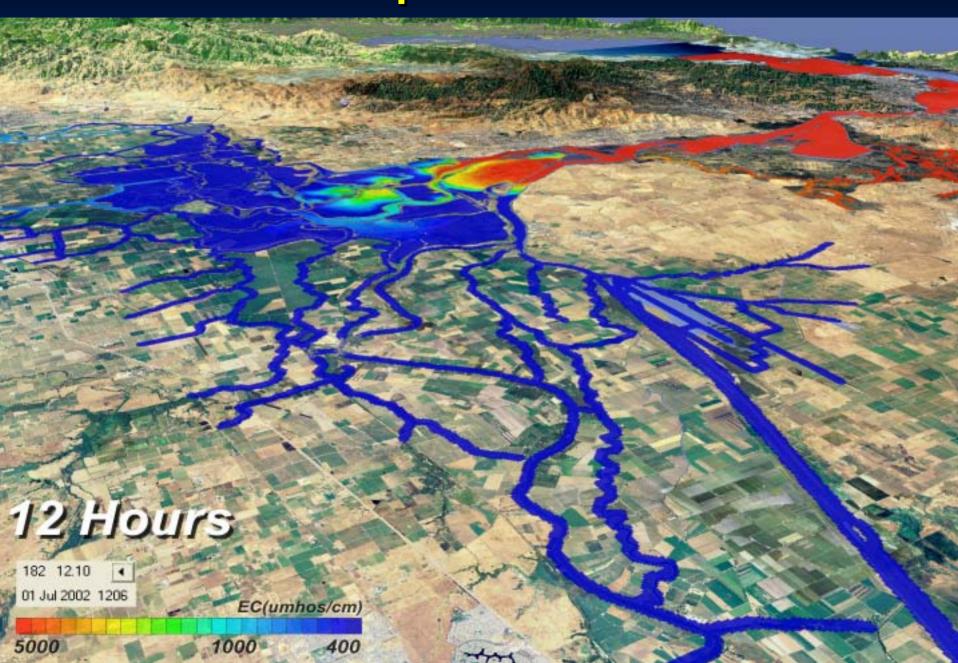


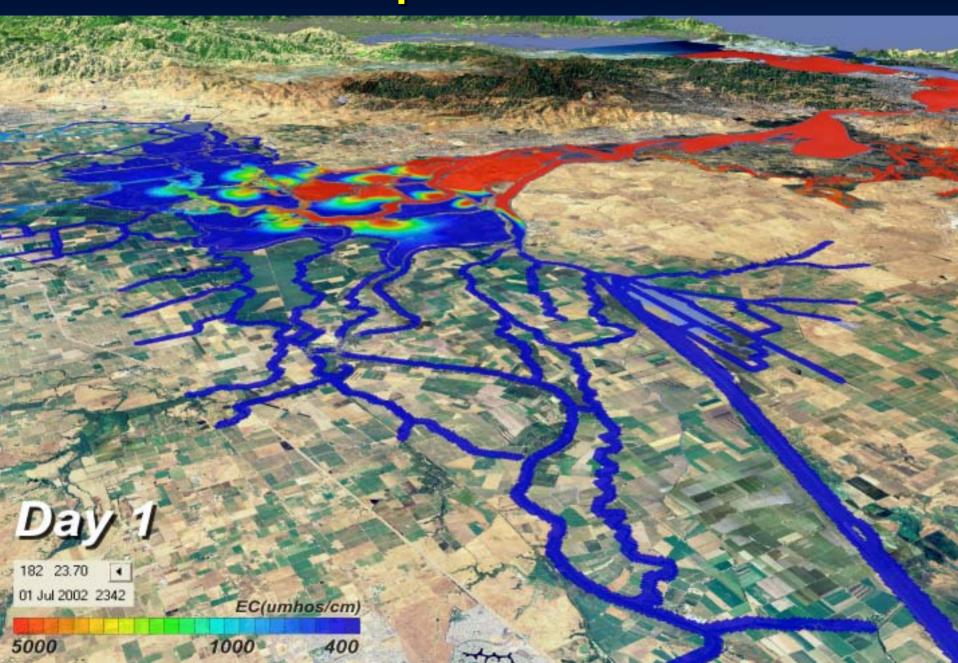
Earthquake In Western Delta

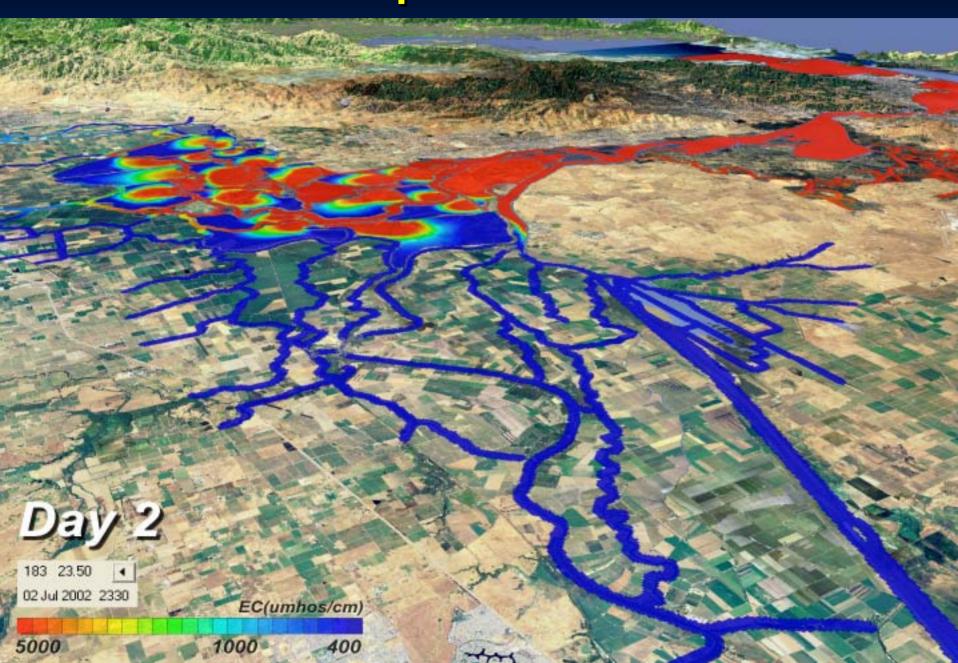


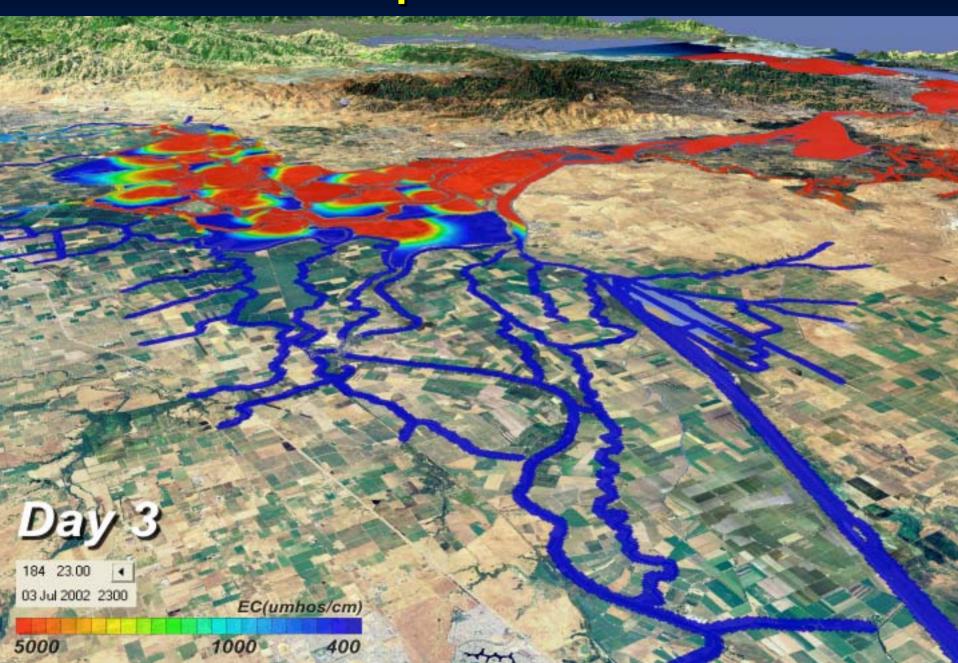


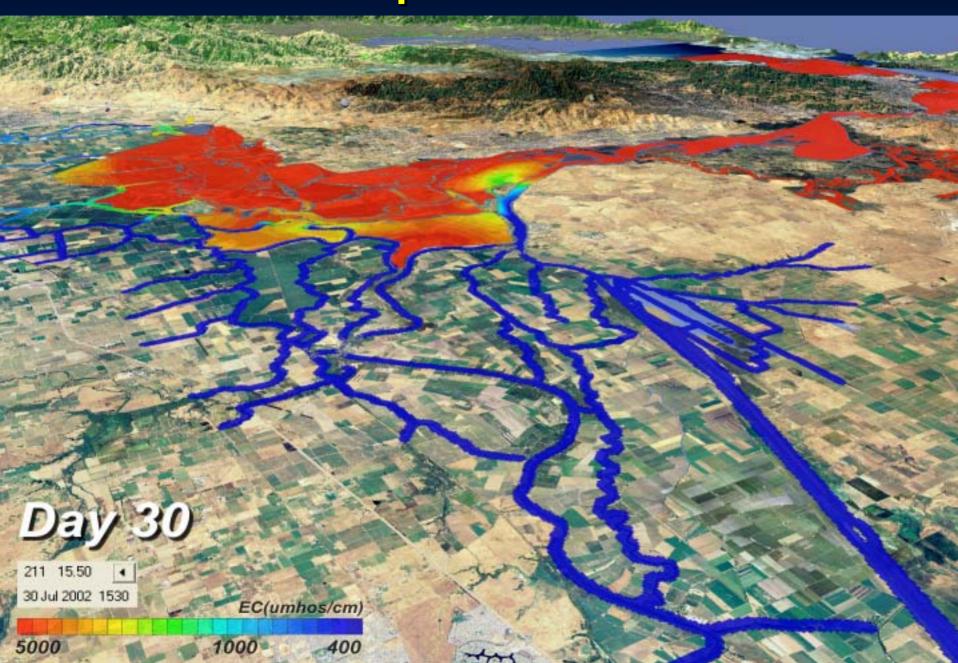












Delta Challenges

- Ecosystem Collapse
- Delta Levee Risks
- Water Project Operations Record Exports
- Water Quality
 - Contaminants & Ag/Urban Runoff
 - Salinity
- Invasive Species
- Failure of Governance & Accountability
- Urbanization & Land Use

Multiple Delta Efforts

- Delta Vision
- Pelagic Organism Decline (POD)
- Delta Risk Management Strategy
- Bay-Delta Conservation Plan
- CALFED Bay-Delta Program
 - Independent Science Program
 - **■** Ecosystem Restoration Program

Bond Funding: Flood & Delta

Assembly Committee on Water, Parks & Wildlife